AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-13. (Cancelled)

14. (Currently Amended) A CCD imager of the type having an image area in which charge

is generated and clocked to an output, comprising an image area divided into a plurality of <u>parallel</u>

channels by channel wallsedges, at least some of the parallel channels being further divided by path

defining structures to create at least a principal path and one or more secondary paths; the principal

and one or more secondary paths being arranged such that charge overflowing from the principal

path during charge transfer is retained within the one or more secondary paths before the channel

wallsedges.

15. (Previously Presented) A CCD imager according to claim 14, wherein the secondary

paths are arranged to converge on the principal path.

16. (Currently Amended) A CCD imager according to claim 14, wherein the principal path

is defined at one side of the a parallel channel.

17. (Currently Amended) A CCD imager according to claim 14, wherein, the principal path

is defined in the middle of the a parallel channel.

18. (Currently Amended) A CCD imager according to claim 14, wherein the width of the a

<u>parallel</u> channel is divided into the principal path and two or more secondary paths.

19. (Previously Presented) A CCD imager according to claim 14, wherein the path defining

structures allow signal charge above a predetermined amount to spill from either the principal path

or a secondary path into an adjacent secondary path.

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Amendment dated

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20. (Cancelled)

21. (Previously Presented) A CCD imager according to claim 14, wherein the path defining

structures comprise compensating barrier implants.

22. (Previously Presented) A CCD imager according to claim 14, wherein the path defining

structures comprise additional buried channel implants.

23. (Previously Presented) A CCD imager according to claim 14, wherein the path has a V-

shaped potential profile.

24. (Currently Amended) A CCD imager according to claim 14, wherein the principal path

is through the a parallel channel and the one or more secondary paths are across the channel width;

the principal and one or more secondary paths being arranged such that charge spilling from the

principal path fills the adjacent secondary paths in turn such that the minimum width of the <u>parallel</u>

channel is used to transfer the charge.

25. (Currently Amended) A CCD imager according to claim 14, wherein the a parallel

channel is formed in a serial register.

26. (Currently Amended) A CCD imager according to claim 14, wherein the path defining

structures are arranged such that in use signal charge generated across the entire width of the a

<u>parallel</u> channel is fed into the principal path from the secondary paths.

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